

JPRS 77304

3 February 1981

# China Report

PLANT AND INSTALLATION DATA

No. 24



FOREIGN BROADCAST INFORMATION SERVICE

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REPORT DOCUMENTATION PAGE		1. REPORT NO. JPRS 77304		2. Recipient's Accession No.	
3. Title and Subtitle CHINA REPORT: PLANT AND INSTALLATION DATA, No. 24				4. Report Date 3 February 1981	
5. Author(s)				6. Performing Organization Report No.	
7. Performing Organization Name and Address Joint Publications Research Service 1000 North Glebe Road Arlington, Virginia 22201				8. Project/Task/Work Unit No.	
				9. Contract/Grant or Order No. (C) (O)	
10. Sponsoring Organization Name and Address  As above				11. Type of Report & Period Covered	
				12.	
13. Supplementary Notes					
14. Abstract (Limit 200 words)  This serial report contains extract translations concerning individual plant and installation activities in the People's Republic of China.					
15. Document Analysis & Descriptors  PEOPLE'S REPUBLIC OF CHINA Metallurgical Industries Transportation Equipment Industries Electronic and Precision Equipment Industries Chemical Industries Fuel and Power Industries Machinebuilding Industries Agricultural Machinery Industries Miscellaneous Industries  a. Identifiers/Class-Excess Terms  b. GDSAT Field/Group 13H, 02C, 07A					
16. Availability Statement Unlimited Availability Sold by NTIS Springfield, Virginia 22161		17. Security Class (This Report) UNCLASSIFIED		18. No. of Pages 46	
		19. Security Class (This Page) UNCLASSIFIED		20. Price	

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## I. METALLURGICAL INDUSTRY

Item: China Rare Earth Company  
[0022 0948 4449 0960 0361 0674]

Location: Baotou City, Nei Monggol AR, PRC

Data: Located only a short distance from Baiyunebo Mountains, and established by the state in May 1979, this company has fulfilled its annual production and sale contract plans for principal products 3 months ahead of schedule. The main and east mines of the Baiyune Mines alone have rich industrial deposits of rare earth oxide, accounting for over 90 percent of China's total industrial rare earth oxide deposits. In addition to rare earth alloy, rare earth chloride, rare earth fluoride, metallic samarium and rare earth ore concentrates, this company produces 40 different kinds of products, including rare earth rich slags, high pH [highspeed] steel and low-grade columbite.

Source: Beijing RENMIN RIBAO in Chinese 18 Nov 80 p 2

Item: Hainan Iron Mine  
[3189 0589 6993 0617]

Location: Hainan Island, Guangdong, PRC

Data: This mine recently built another new rail line--No 3 Rail Line--and put it into operation on 15 April 1980. The completion of this rail line will facilitate the opening of three new seams and the stripping of 30 million additional metric tons of iron ore.

Source: Haikou HAINAN RIBAO in Chinese 24 Apr 80 p 2

Item: Tianjin Steel Smelting Plant No 1  
[1131 3160 4574 0001 3550 6921 0617]

Location: Tianjin, PRC

Data: This plant has developed a new open-hearth steel-smelting technique, which mixes water with fuel oil, in cooperation with the Institute of Acoustics under the Chinese Academy of Sciences. Experts say that the technique could save large quantities of oil if it is popularized throughout the country. The method cuts fuel oil consumption by 6.5 to 9 percent when 7 or 8 percent water is mixed with the oil. The quality of the steel is up to standard. An ultrasonic emulsifier uses acoustic energy to turn water into small drops, forming a water-and-oil emulsion, which is then injected into the open hearth to be burned. The technique insures more efficient use of oil and reduces smoke discharge.

Source: Beijing XINHUA in English 0810 GMT 15 Dec 80 OW

Item: Baotou Iron and Steel Company  
[0545 7333 6021 6993 0361 0674]

Location: Baotou, Nei Monggol AR, PRC

Data: In 1980 this company adjusted its production plan to serve the needs of light industry and agriculture and to meet the market requirements. According to statistics covering the period from January to mid-December 1980, this company produced some 45,000 metric tons of rolled steel for various light industry units. The products were of more than 30 different varieties and specifications, over 60 percent of which were urgently needed. As of mid-December 1980, the company earned a profit of more than 40 million yuan, overfulfilling the annual quota for profit to be turned over to the state by 12 million yuan.

Source: Beijing XINHUA Domestic Service in Chinese 0124 GMT 7 Jan 81 OW

Item: Anshan Iron and Steel Company  
[7254 1472 6921 6993 0261 0674]

Location: Anshan, Liaoning, PRC

Data: More than 10,800 production and office workers, including managerial personnel at Anshan, China's biggest iron and steel center, are receiving vocational education at company-run colleges, technical classes and night schools or through correspondence courses, TV and radio lessons. Among those studying in 231 classes at the educational center run by the company, 1,942 people are in higher education, while 2,600 are enrolled in secondary education. Some 3,100 office workers are attending full-time or part-time courses, while many workers are in short-term courses. The company has been running such schooling since 1978, and now has 1,740 teachers and administrative staff. The educational center deals with a wide range of subjects, from computer science to radio engineering.

Source: Beijing XINHUA in English 1527 GMT 18 Dec 80 OW

Item: Baotou Metallurgical Institute  
[0545 7333 0396 6855 4282 4496 2076]

Location: Baotou, Nei Monggol AR, PRC

Data: This institute and other units have made joint efforts to successfully study and produce a kind of sulfuric acid-proof steel. Production of this steel was formally started recently. The new product is also phosphoric acid-resistant.

Source: Beijing XINHUA Domestic Service in Chinese 0143 GMT 17 Dec 80 OW

Item: Panzhihua Steel Mill  
[3272 2388 5363 6921 0617]

Location: Duzhou City, Sichuan, PRC

Data: Professor Hua Lungeng, famous mathematician and deputy director of the Chinese Academy of Sciences, has been appointed technical adviser of this mill. The professor recently conducted short training classes on applied mathematics in the steel mill, with other applied mathematicians.

Source: Chengdu Sichuan Provincial Service in Mandarin 2300 GMT 23 Oct 80 HK



## II. TRANSPORTATION EQUIPMENT INDUSTRY

Item: Motor Vehicle Manufacturing Plant No 2  
[4574 0059 3086 6508 0455 6644 0617]

Location: Shiyan, Hubei, PRC

Data: Effective 1 January 1981, the price of Tungfeng brand 5-ton truck manufactured by this plant will again be reduced by 2,000 yuan. This decision was made by the First Ministry of Machine-Building and the State General Price Bureau. At the same time, a set of easily worn out parts, such as cylinder gaskets, will be given free of charge.

Source: Wuhan HUBEI RIBAO in Chinese 1 Jan 81 p 1

Item: Taiyuan Railway Bureau  
[1132 0626 6993 6424 1444]

Location: Taiyuan, Shanxi, PRC

Data: This bureau prefulfilled its annual cargo transport plan by 9 November. It reported an increase of 16.5 percent in freight transport volume, as compared to the same 1979 period. Some 54.5 million metric tons of coal were shipped out, up 8.71 million metric tons from the comparable period of 1979.

Source: Beijing RENMIN RIBAO in Chinese 20 Nov 80 p 2

Item: Jiangjin Prefecture Motor Transport Company  
[3068 0079 0966 0575 3086 6508 6663 6531 0361 0674]

Location: Jiangjin, Sichuan, PRC

Data: During the period between January and October this year, this company used 9.1 percent less gasoline than the apportioned quota, a decrease of 4.31 percent as compared to the like 1979 period. Consequently, transport cost was correspondingly reduced, and the goal of increasing productivity was fulfilled.

Source: Chengdu SICHUAN RIBAO in Chinese 29 Nov 80 p 2

Item: Nantong Harbor  
[0589 6639 3263]

Location: Nantong, Jiangsu, PRC

Data: Two newly built 10,000-ton-class berths have recently been put into operation here, thus adding 80,000 metric tons to the annual tonnage handled at this port. They are the first inland river deep-water piers built along the Yangtze River.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 26 Dec 80 p 3

Item: Dalian Xingang (New Port)  
[1129 6647 2450 3263]

Location: Dalian, Liaoning, PRC

Data: Since it started shipping oil abroad in July 1976 and up to the end of 1980, this new port has made 191.68 million yuan in profit. Subtracting the total harbor construction costs, it netted 42.98 million yuan in profit. It has been handling and shipping out 300,000 additional metric tons of oil annually in the past several years.

Source: Shenyang LIAONING RIBAO in Chinese 3 Jan 81 p 1

Item: PLA Unit Plant No 7427  
[4395 1558 6752 7130 0003 0934 0059 0003 0617]

Location: Fuzhou, Fujian, PRC

Data: The PLA General Logistics Department recently presented a certificate to this plant for its outstanding motor vehicle repair services.

Source: Fuzhou FUJIAN RIBAO in Chinese 17 Dec 80 p 1

Item: Lianyungang-Lanzhou Railway  
[6647 7189 3263 6395 1558 6993 6424]

Location: PRC

Data: Double-tracking of the Shanghai-Xuzhou section of this railway was completed on 22 December 1980. The Zhengzhou-Shanghai section of the railway was double-tracked earlier

Source: Beijing XINBUA Domestic Service in Chinese 1445 GMT 29 Dec 80 OW

Item: Chongqing Shipyard  
[6850 1987 6644 5307 0617]

Location: Chongqing, Sichuan, PRC

Data: This shipyard has built a transporter turntable to move loads of up to 1,000 m tons with a pulling power of only 10m tons. The metal turntable, which has a 77-meter diameter, rests on over 60 rubber bags. Water is constantly forced into the bags and allowed to escape through small holes, forming a thin film of water on the ground and reducing friction as the table is pulled forward. The shipyard said this week the turntable is cheap to build and easy to maintain.

Source: Beijing XINBUA in English 0255 GMT 25 Nov 80 OW

### III. ELECTRONIC AND PRECISION EQUIPMENT INDUSTRIES

Item: Jiangnan Radio Equipment and Materials Plant  
[3068 0189 3541 6848 7193 0892 2624 0617]

Location: Wuxi, Jiangsu, PRC

Data: This plant has recently trial-produced an integrated circuit for 12-inch black and white television set. The design for this television component will be finalized for the first time in the country. In the past 2 years, the plant has trial manufactured 400 integrated circuits for trial use by TV set manufacturing units in Beijing and Shanghai. Mass production of the TV integrated circuit is scheduled to begin at this plant in 1981.

Source: Nanjing XINHUA RIBAO in Chinese 28 Dec 80 p 2

Item: State-owned Plant No 8461  
[0948 3602 0360 0934 0362 0001]

Location: Fujian Province, PRC

Data: With the idea of combining scientific research with production this plant has designed, trial manufactured and regularly produced 70 kinds of precision lenses, industrial television lenses and microscopes. It supplies the country with micro lenses for making large-scale integrated circuit plates and 60 percent of the industrial television lenses.

Source: Fuzhou FUJIAN RIBAO in Chinese 6 Oct 80 p 1

Item: Suzhou Camera Plant  
[5685 1538 3364 4161 2623 0617]

Location: Suzhou, Jiangsu, PRC

Data: The first batch of "Huqiu" [5706 8006] brand 121 twin-lens cameras successfully trial produced by this plant was completely sold out by 27 December. This plant successfully trial manufactured the "Huqiu" brand 135 camera in 1974 and began designing and trial producing the model 121 camera in March 1980.

Source: Nanjing XINHUA RIBAO in Chinese 28 Dec 80 p 2

Item: Minjiang Instrument and Meter Plant  
[7044 3068 0308 5903 0617]

Location: Fuzhou, Fujian, PRC

Data: This plant recently succeeded in trial producing a DD28 kilowatt hour meter and has placed it into limited production. Only a few factories in the country are producing this product.

Source: Fuzhou FUJIAN RIBAO in Chinese 12 Jan 81 p 2

Item: Suzhou Electronic Computer Plant  
[5685 1558 7193 1311 6060 4615 2623 0617]

Location: Suzhou, Jiangsu, PRC

Data: As of early October this year, this plant has supplied affiliated units throughout China with more than 40 multi-access computer systems. In the multi-access system built by this plant, a "communication multiplexer" is fitted onto a DJS130 electronic computer, thus connecting as many as 26 operational points which can simultaneously use one machine within an area of several kilometers.

Source: Nanjing XINHUA RIBAO in Chinese 31 Oct 80 p 1

Item: Jilin Engineering College  
[0679 2651 1562 4453 1129 1331]

Location: Probably Changchun, Jilin, PRC

Data: With the cooperation of the Changchun Institute of Optical and Precision Instruments, this college has produced China's first XD5-1 model television scanner for medical use. After a trial operation, this television scanner has proved to be up to the country's advanced standards and was recently put into mass production. This television scanner can show the internal conditions of the human body instantly and accurately.

Source: Changchun Jilin Provincial Service in Henderia 2200 GMT 29 Dec 80 CR

Item: Chinese Microelectric Motor Company  
[0022 0948 1792 0992 7193 2623 0361 0674]

Location: Nanjing, Jiangsu, PRC

Data: This company was recently established in Nanjing and it has started to accept orders. The company is composed of several microelectric motor plants in Nanjing, Shanghai, Tianjin and Beijing, whose production used to be small and redundant, and the Xi'an Microelectric Motor Research Institute under the First Ministry of Machine-Building, which used to have insufficient research assignments. After the merger, the research institute will handle research on new products which require high technology, and all the plants under the company will be able to give play to their superiority in developing new products. The plants under the company will maintain their own independent accounting systems under a unified management system.

Source: Nanjing Jiangsu Provincial Service in Mandarin 1100 CNT 1 Jan 81 CW

Item: Shanghai Engineering University  
[0006 3189 1962 6453 1129 1331]

Location: Shanghai, PRC

Data: This university has just produced China's first textile mechanical hand for sorting out tiny precision spare parts. The hand can automatically measure and sort out parts thinner than a human hair. It can also judge the size of parts and whether they are up to standard and then put them in their proper places. The success has opened a new approach for China's study and application of the robot of intellect, an important scientific research item, which the university has been studying since 1979.

Source: Beijing RISSIA in English 0711 CNT 22 Jan 81 CW



Item: Heilongjiang Provincial Institute of Technology and Physics  
(7815 7893 3068 4164 2111 5890 3670 3810 4282 4496 2076)

Location: Heilongjiang Province, PRC

Data: This institute has succeeded in producing acrylic amide by irradiation with radioactive cobalt. In the course of the experiment, the institute received support from more than 10 units in Shanghai, Beijing, Anhui, Liaoning, Jilin and Heilongjiang.

Source: Beijing XINBUA Domestic Service in Chinese 0213 GMT 4 Jan 81 ON

Item: Nei Monggol Broadcast Equipment Plant  
(0355 5536 0637 1684 2330 6080 0271 0617)

Location: Nei Monggol AR, PRC

Data: "Evan" brand televisions manufactured in the Nei Monggol Autonomous Region were best sellers in North and Northeast China in the second half of this year. The 12-inch black and white sets are suited to weak signals and 160 to 240 volts. Those on stock for a recent sales exhibition in Tianjin all sold out. Nei Monggol's industry is relatively underdeveloped, though remarkable progress has been made since 1949. This plant was the country's first TV factory set up in a minority people's area. It has 25 quality control groups of technicians and skilled workers. The factory's annual production capacity is now 30,000 to 50,000 sets, but it will increase to 100,000 when two new assembly lines go into operation. The factory also has succeeded in manufacturing double-audio TV sets, and plans to begin manufacturing color and large-screen sets soon.

Source: Beijing XINBUA in English 0704 GMT 23 Dec 80 ON

Item: Beijing Plant No 605  
(0554 0079 4574 0362 7190 0061 0617)

Location: Beijing, PRC

Data: This plant has successfully developed a new process code-named "comprehensive Q D method" to make quartz glass out of low quality crystal ore. The quality of its quartz glass is up to or close to the international advanced standard.

Source: Beijing XINHUA Domestic Service in Chinese 0258 GMT 31 Dec 80 OW

Item: CAS Scientific Instrument Plant  
(0022 0948 4430 1331 7108 4430 1331 0308 0892 0617)

Location: Beijing, PRC

Data: China has successfully produced its first ZHP-5 mass spectrometer, a highly efficient instrument linking organic mass spectrographic analysis with calculator. It was successfully trial-produced by this plant.

Source: Beijing XINHUA Domestic Service in Chinese 0240 GMT 17 Dec 80 OW

Item: Shanghai Institute of Laser Technology  
[0006 3189 3-24 0342 21.1 5890 4282 4496 2070]

Location: Shanghai, PRC

Data: Since its establishment in April this year, the technical promotion service department of this institute has provided various localities with some 200 sets of laser equipment and parts, including regulator, adjuster and other supplementary items.

Source: Shanghai City Service in Mandarin 2300 GMT 18 Nov 80 OW

Item: Anhui Optical Machinery Institute  
[1311 1790 0342 1331 2623 2750 4282 4496 2076]

Location: Hefei, Anhui, PRC

Data: After 5 years of hard effort, the ruby research and development group of this institute under the Chinese Academy of Sciences (CAS) has successfully extracted the ruby monocrystal by the high-frequency induction heating method. It fully conforms with international standards and thus has filled a gap in this field in China. The CAS has awarded it "the major scientific and technical achievement prize."

Source: Hefei Anhui Provincial Service in Mandarin 1100 GMT 20 Nov 80 OW

#### IV. CHEMICAL INDUSTRY

Item: Zhongjiang Xian Nitrogenous Fertilizer Plant  
[6988 3060 4905 8644 5142 0617]

Location: Zhongjiang County, Guangdong, PRC

Data: By means of technical reforms, this plant has raised its originally designed synthetic ammonia output capacity from 3,000 to 5,000 metric tons. By the end of 1979 its synthetic ammonia output exceeded the annual output capacity by 25 percent. The plant saved 2.06 million cubic meters of natural gas and netted 1.175 million yuan in profit. Its natural gas consumption per metric ton of ammonia produced was 927 cubic meters, 32 percent lower than the average gas consumption per metric ton of ammonia produced among small-scale nitrogenous fertilizer plants throughout Sichuan Province. It has conserved 1.179 million cubic meters of natural gas, valued at 73,000 yuan.

Source: Chengdu SICHUAN RIBAO in Chinese 15 Nov 80 p 2

Item: Yanting Chemical Fertilizer Plant  
[7770 0080 0553 5142 0617]

Location: Yanting County in northern Sichuan, PRC

Data: This county-run plant was built with the help of the Provincial Petroleum Administration, units under the Central Sichuan Mining Zone, power departments and the Mianyang Prefecture Nitrogenous Fertilizer Plant. The equipment selected for this plant can either turn out ammonium carbonate now or be converted into urea-making equipment later. Since it went into production at the end of September 1980, the plant has been operating normally and the products are of high grade. In addition to meeting local needs, the plant ships out some of its chemical fertilizer to other parts of the country.

Source: Chengdu SICHUAN RIBAO in Chinese 21 Oct 80 p 2

Item: Jinan Petrochemical Plant  
[3444 0589 4258 3111 0553 1562 0617]

Location: At the foot of Baoshan in the eastern suburbs of Jinan, Shandong, PRC

Data: By making some modifications on its atmospheric pressure tower, this small-sized oil refinery was able to double its annual crude oil processing capacity. Its original yearly crude oil processing capacity was only 300,000 metric tons. It would have cost the plant 250,000 yuan if it had gone ahead to build a new atmospheric pressure tower. A plan formulated by technicians here to automatically control and stabilize pressure in the gas pipeline has saved the state 8,000 metric tons of fuel oil valued at 520,000 yuan annually.

Source: Jinan DAZHONG RIBAO in Chinese 3 Jan 81 p 1

Item: Weifang Chemicals Plant  
[3452 0972 0553 1562 0617]

Location: Weifang, Shandong, PRC

Data: Because of poor management, this plant had operated at a loss of 8.3 million yuan during a 5-year period beginning 1974. In 1979 it began adopting an all-round economic accounting system by which each workshop or unit at the plant is responsible for its own loss and profit and keeps its own financial account independently. As a result of implementing this new system and despite a product price reduction and some changes in the methods of packing, which resulted in a drop of 300,000 yuan in its income, this plant registered a profit of 730,000 yuan for the January-November 1979 period.

Source: Jinan DAZHONG RIBAO in Chinese 23 Dec 80 p 2

Item: Zhangpu Xian Synthetic Ammonia Plant  
[3361 3186 4903 0678 2052 8637 0617]

Location: Zhangpu County, Fujian, PRC

Data: Established in early 1980, this plant has so far produced 15,041 metric tons of ammonium carbonate, surpassing the originally designed capacity by 23 percent and the provincial output quota by 36 percent.

Source: Fuzhou FUJIAN RIBAO in Chinese 12 Jan 81 p 2

## V. FUEL AND POWER INDUSTRIES

Item: Dongjiang Hydroelectric Power Station  
(2639 3060 3055 7193 4541)

Location: Upper reaches of the Xiangjiang River in Zixing County, Hunan, PRC

Data: Construction of this power station with a total installed capacity of 500,000 kilowatts is under way. Most of the support projects have been completed. The river was dammed in mid-November. Construction phase of the pivotal project is in full swing.

Source: Beijing RENMIN RIBAO in Chinese 2 Dec 80 p 1

Item: Yuanbaoshan Power Plant  
(0337 1405 1472 4099 0617)

Location: Suburbs of Chifeng City, Ju Ud Meng, Nei Monggol AR, PRC

Data: The first phase project of this plant, one of China's large power plants located near the mines, was inspected and accepted by the state at the end of 1980. One of the main power plants of the Northeast electric power system, this plant currently has a 300,000-KW generating unit in operation.

Source: Beijing RENMIN RIBAO in Chinese 7 Jan 81 p 1

Item: Jianbi Power Plant  
[2687 1084 7193 0617]

Location: Jianbi, Jiangsu, PRC

Data: The first 300,000-kilowatt steam turbine generator has been completed and put into operation at this plant recently. A wharf for berthing 25,000-ton-class ships has been built by the Yangtze River near the plant for unloading and transporting coal to the plant.

Source: Beijing XINHUA Domestic Service in Chinese 0127 GMT 29 Dec 80 OW

Item: Tianshenggang Power Plant  
[1131 3932 3263 4099 7193 0617]

Location: Nantong, Jiangsu, PRC

Data: The extension project of this plant was built on 8 December 1980. The newly installed two 125,000-kw generators have started to generate power. The power plant's capacity now reaches 340,000 kw.

Source: Beijing XINHUA Domestic Service in Chinese 1219 GMT 8 Dec 80 OW



Item: Zhenhai Power Plant  
[6966 3189 4099 7193 0617]

Location: Zhenhai, Zhejiang, PRC

Data: The installation of another 220,000-volt substation has been completed on 20 December 1980 in Zhuji County, Zhejiang. The substation obtains its electric supply from this plant and the Fuchunjiang Hydraulic Power Plant. It will not only supply electricity to Zhuji County but also support industrial and agricultural production in Yiwu, Pujiang and Dongyang counties.

Source: Hangzhou Zhejiang Provincial Service in Mandarin 1100 GMT 23 Dec 80 OW

Item: Hunan Zhen Hydropower Station  
[3273 0589 6966 3053 7193 4541]

Location: Hunan Zhen, Qu County, Zhejiang, PRC

Data: The last power generating set of this station has been put into operation ahead of schedule. The station has four power generating sets with a total capacity of 170,000 kilowatts. The station's first two sets have provided over 250 million kilowatts of power for the Huadong (East China) Power Network since they were put into operation in September and October 1979. The third set was put into operation in the latter part of last September. The last one was originally scheduled to be put into operation at the end of the first quarter of 1981.

Source: Beijing XINHUA Domestic Service in Chinese 0116 GMT 21 Dec 80 OW

Item: Panjiakou Hydroelectric Power Station  
[(3382 1367 0656) 3055 7193 4541]

Location: Qianxi County, Hebei, PRC

Data: The first generating unit, with a 150,000-kw capacity, was put into operation on 15 December at this station. The station, when totally completed, will have an installed capacity of 450,000 kw.

Source: Beijing XINHUA Domestic Service in Chinese 1138 GMT 15 Dec 80 OW

Item: (Taipinghua) Hydroelectric Power Station  
[(.... ....) 3055 7193 4541]

Location: Liaoning Province, PRC

Data: This station has placed its No 4 generator set--the last one of four sets--into operation on 22 November, adding to its power generating capacity which totals 161,000 kilowatts. This will help improve the imbalance between supply and demand in the northeast power network.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 22 Nov 80 SK

Item: Bapozai Hydroelectric Power Station  
[.... .... 3033 0300 4099 7193 4341]

Location:

Date: With two more water turbogenerators put into operation, this station on the upper reaches of the Huanghe River was completed recently. The station is located in Lanchow Municipality. It has five water turbogenerating units with a total installed capacity of 180,000 kilowatts.

Source: Beijing XINWA Domestic Service in Chinese 0115 GMT 4 Jan 81 CW

Item: Baiji Coal Mine  
[.... .... 3361 4349]

Location: Liangyungang Municipality, Jiangsu, PRC

Date: This mine has been formally put into operation on 26 December 1980. The mine, which has an estimated reserve of 10 million metric tons, will operate for 25 years or more.

Source: Nanjing Jiangsu Provincial Service in Mandarin 1100 GMT 26 Dec 80 CW

## VI. MACHINE-BUILDING INDUSTRY

Item: Guizhou Diesel Engine Plant  
[6311 1558 2693 3111 2623 0617]

Location: Guiyang, Guizhou, PRC

Data: This plant recently won a silver plate for its 6135G diesel engine at the National Quality Prize Award Presentation Meeting in September 1980. Workers and technicians here have made unrelentless efforts toward cutting down the fuel consumption of their products. The fuel consumption of their general-purpose diesel engines is maintained steadily between 162 to 167 grams per horsepower hour. By the end of 15 August 1980, the plant had signed sale contracts for 3,102 diesel engines. Its generating sets have topped the list of sales.

Source: Guiyang GUIZHOU RIBAO in Chinese 3 Sep 80 p 2

Item: Nei Monggol Machinery Manufacturing Plant No 1  
[0155 5336 0657 4574 0001 2623 2730 0433 6644 0617]

Location: Nei Monggol AR, PRC

Data: Because of sound management in the conservation of energy, this plant's energy cost has been reduced from 21 million yuan in 1978 to 17 million yuan in 1980, averaging a 10-percent reduction per annum.

Source: Beijing RISHI RIBAO in Chinese 20 Nov 80 p 2

Item: Kindu Machinery Plant  
[2450 6757 2623 3750 0417]

Location: Kindu, Sichuan, PRC

Data: This plant has distinguished itself in the field of energy conservation. Energy consumption per 10,000 yuan industrial output value in 1979 was 39.8 percent less than that of 1978. From January to October 1980, the energy consumption rate was 12.4 percent lower in comparison with the corresponding 1979 period. Recently, this plant has won the national title of "Energy Conservation Pioneer."

Source: Chengdu SICHUAN RIBAO in Chinese 29 Nov 80 p 1

Item: Nanguang Machinery and Equipment Plant  
[0389 0342 2623 0892 0417]

Location: Nanguang, Sichuan, PRC

Data: Having completed a marketing survey research, this plant began to produce such items as lightbulbs, fluorescent lamps, exhaust devices, and other products used in the light industry. Subsequently, the plant also manufactured rolling-type aluminum vacuum plating equipment for making aluminum foils. Production cost was greatly reduced as a result of this innovation.

Source: Chengdu SICHUAN RIBAO in Chinese 29 Nov 80 p 2

Item: China Light Industrial Machinery General Company  
[0022 0948 6335 1562 2814 2623 2750 4920 0361 0674]

Location: Beijing, PRC

Data: With the approval of the State Council, this company will be established on 1 January 1981 here. A nationwide joint economic enterprise, it will have as its directly subordinate units 35 key light industrial machinery and measurement tools enterprises and 6 design institutes throughout the country. At the same time, it will exercise control over the production and development of all the light industrial machinery and measurement tools enterprises of the country and coordinate their cooperation with other enterprises. A branch company will be established in Shanghai, also with the independent economic accounting system. Both the general and the branch companies have some decision-making power. All the subordinate enterprises may solicit orders on their own, additional to fulfilling the quotas assigned by the general company.

Source: Beijing XINHUA Domestic Service in Chinese 1205 GMT 31 Dec 80 CW

Item: Zhejiang Bureau of Machine-Building Industry  
[3161 3048 4184 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data: The following 25 machine tool manufacturing plants in Zhejiang are enterprises designated by the First Ministry of Machine-Building Industry to market their products through the sales department of this bureau:

<u>Product model numbers and names</u>	<u>Manufacturers</u>
Lathe C616/750	Zhuji Machine Tool Plant
Lathe C620L/1000	Lanxi Machine Tool Plant
Lathe C620-/750	Hingbo Machine Tool Plant
Lathe C620-1/1000	" " " "
Lathe C620-1/1500	" " " "
Lathe C6140-1400	Zhuji Machine Tool Plant
Lathe CT6140/1400	Tangxi Gear Machine Tool Plant
Lathe C630/1400	Hushu Machine Tool Plant
Vertical lathe C616A	" " " "
Instrument and Meter Lathe	Cini Machine Tool Plant
Multi-cutter Semi-automatic Lathe C7620	Zhuji Machine Tool Plant
Relieving Lathe C8951	" " " "

Source: Hangzhou ZHEJIANG HIRAO in Chinese 28 Nov 80 p 4  
[Continued on Card 2]

[Continued from Card 1]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Radial Drill Z328	Qianjiang Machine Tool Plant
	" " ZW224 Universal	" " " "
	" " Z3040	Lishui Machine Tool Plant
	" " Z3063	Qianjiang Machine Tool Plant
	Vertical Drill Z5040	Lishui Machine Tool Plant
	" " H1-25	Haimen Machine Tool Plant
	" " H5-3	" " " "
	Bench Drill Xihu (West Lake) brand Z312-2	Xihu Bench Drill Plant
	Bench Drill Xihu brand Z406/1450- 5800r	" " " "
	Bench Drill Qiantangjiang X312-2	Yongkang Machine Tool Plant
	Bench Drill Qiantangjiang X406/8300r	" " " "

Source: Hangzhou ZHEJIANG RIBAD in Chinese 28 Nov 80 p 4

[Continued on Card 3]

[Continued from Card 2]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Planer B7016A	Shengxian Forging Machine Tool Plant
	Shaper B6025	Wenling Machine Tool Plant
	" B6032	" " " "
	" B635-1	" " " "
	" B663	Shaoying Machine Tool Plant
	" B6050	Lituo Machine Tool Plant
	" B690 Hydraulic Grinders	" " " "
	Vertical Circular Table Surface Grinder H74100	Hangzhou Machine Tool Plant
	Surface Grinder H67150	" " " "
	High Precision Surface Grinder H6 87132	" " " "
	Precision Surface Grinder H67120A	" " " "
	" " " H67132/1000	" " " "
	" " " H67131/1690	" " " "

Source: Hangzhou ZHEJIANG RIBAD in Chinese 28 Nov 80 p 4

[Continued on Card 4]

[Continued from Card 3]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Surface Grinder H7130K/1600	Hangzhou Machine Tool Plant
	" " H7130/1000	" " " "
	Double-end Surface Grinder H 87650	" " " "
	Internal Grinding Machine H2110A	Haimen Machine Tool Plant
	Universal External Grinding Machine	
	HQ1420x750	Haining Machine Tool Plant
	" " " "	
	M1432/1000	" " " "
	" " " "	
	M1432x1500	" " " "
	Centerless Grinding Machine H1083A	" " " "
	Spline Grinder HB612/1000	" " " "
	" " HB612/1500	" " " "
	Tool Grinder H6025D	" " " "
	Hobbing Grinder HB420B	Haimen Machine Tool Plant

Source: Hangzhou ZHEJIANG RIBAO in Chinese 28 Nov 80 p 4

[Continued on Card 5]

[Continued from Card 4]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Helical Grinder MA4216	Ruian Machine Tool Plant No 2
	Valve Seat Grinder JH9501	Jian Machine Tool Plant
	Light Model Universal Revolving Head	
	Milling Machine XQ6125	Qixin Machinery Plant
	Light Model Universal Revolving Head	
	Milling Machine XQ6225	" " "
	Universal Milling Machine (New Series)	Lanxi Machine Tool Plant
	Spline Milling Machine Y631K	Jian Machine Tool Plant
	Gear Hobbing Machine Y3120	Lanxi Machine Tool Plant
	Gear Hobbing Machine Y38-1	Tangxi Gear Machine Tool Plant
	" " " Y31125E	" " " "
	Gear Shaping Machine Y5120	Lanxi Machine Tool Plant
	Slotter B5032	Wenling Machine Tool Plant
	Horizontal Boring Machine T618	Tangxi Gear Machine Tool Plant
	Diamond Borer Y716	Wenling Machine Tool Plant
	Screw Cap Tapping Machine S24206	"Wu-yi" [One May] Machinery Plant
	" " " S24210	" " " "

Source: Hangzhou ZHEJIANG RIBAO in Chinese 28 Nov 80 p 4

[Continued on Card 6]



[Continued from Card 5]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Screw Cap Tapping Machine S24216	"Wu-yi" [One May] Machinery Plant
	" " " " S24224	" " " "
	" " " " S24230	" " " "
	Vertical Tapping Machine S5016	Haining Machine Tool Plant
	Forging Equipment	
	Four-column Universal Hydraulic Press Y32-35T	Huzhou Machine Tool Plant
	Four-column Universal Hydraulic Press Y32-100T	" " " "
	Underdriven Press J29-160A	Shengxian Forging Machine Tool Plant
	Tilting Press J23-100T	" " " "
	" " J31-100T	Shaoxing Machine Tool Plant
	" " J B23-63T	Shengxian Forging Machine Tool Plant
	" " J A23-35T	" " " "
	" " J23-16T	Linhai Casting Machinery Plant
	" " J C23-35T	Yuhuan Machine Tool Plant
	" " J 23-16T	" " " "

Source: Hangzhou ZHEJIANG RIBAO in Chinese 28 Nov 80 p 4

[Continued on Card 7]

[Continued from Card 6]

Item: Zhejiang Bureau of Machine-Building Industry  
[3181 3068 4164 2623 2750 1562 2814 1444]

Location: Zhejiang Province, PRC

Data:	Product model numbers and names	Manufacturers
	Tilting Press J 23-16T	Shaoxing Machine Tool Plant
	" " J 23-10T	Yuhuan Machine Tool Plant
	" " J G23-40T	Wu-yi [One May] Machine Tool Plant
	Pneumatic Hammer C41-250T	Wulin Machinery and Equipment Plant
	Plate Shear Q11-6x2500	Wenzhou Punching and Shearing Machine Tool Plant
	Plate Shear Q11-3x1200	" " " "
	Combined Punching and Shearing Machine a 34-10	" " " "
	Shaped Steel Shearing and Cutting Machine Q41-100	" " " "
	Rods Shearing and Cutting Machine Q42-160	Shaoxing Machine Tool Plant
	Crocodile Shearing Machine Q43-63	Shengxian Forging Machine Tool Plant
	Universal Bending Machine 271-3	" " " "
	Pull-Rod Type Metal Extruding Machine J A88-200	" " " "

Source: Hangzhou ZHEJIANG RIBAO in Chinese 28 Nov 80 p 4

[Continued on Card 8]

[Continued from Card 7]

Item: Zhejiang Bureau of Machine-Building Industry  
(3181 3068 4164 2623 2790 1562 2814 1444)

Location: Zhejiang Province, PRC

Data:	<u>Product model numbers and names</u>	<u>Manufacturers</u>
	Crank Metal Extruding Machine J A87-270	Shengxian Forging Machine Tool Plant
	Deep-Throat Punching Machine 100T	" " " " "
	Sand Mixer 8114	Linhai Casting Machinery Plant
	Microvibroforming Machine 2148C	" " " "

Source: Hangzhou ZHEJIANG RIBAO in Chinese 28 Nov 80 p 4

## VII. MISCELLANEOUS INDUSTRIES

Item: Qingtian Cement Plant  
(7230 3944 3033 3136 0617)

Location: Jinyun County, Zhejiang, PRC

Data: This state-operated plant, which produces No 400, 425 and 500 cement, has been criticized for shipping out sacks of cement that were below the standard weight. In mid-July 1980, the local supplies bureau weighed dozen sacks of cement produced by this plant and found that each sack of cement was 7.33 catties below the standard weight of 100 catties. This practice of "shortchanging" the customers has caused the buying public to lose trust in state-run enterprises, according to an editor's note.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 10 Nov 80 p 2

Item: Wuxi Electric Cable Plant  
(2477 6932 7173 0617)

Location: Wuxi, Jiangsu, PRC

Data: As a result of overemphasizing production value and marketing on the one hand, and disregarding proper management and economizing on the other, this plant, during the first 9 months of this year, was able to fulfill only 69.91 percent of 140 million yuan set in the plan for increasing revenue and reducing expenses. In 2 years, Workshop No 2 alone was 53,000 yuan short of the planned target.

Source: Nanjing XINHUA RIBAO in Chinese 6 Nov 80 p 1

Item: Guangdong Geological Team No 735  
[1684 2639 0003 0006 0063 0966 6347 7130]

Location: Guangdong, PRC

Data: This team has recently found a large Glauber's salt and rock salt bed just 15 kilometers from Guangzhou. So far, 13 million metric tons of Glauber's salt deposits and 64 million metric tons of rock salt are "under control."

Source: Beijing REDHIN RIBAO in Chinese 18 Nov 80 p 1

Item: Meilin Cannery  
[2734 2651 4982 7333 0617]

Location: Shanghai, PRC

Data: By improving its management, reducing production cost and increasing the production of marketable product varieties, this cannery was able to achieve marked economic results. As compared to the comparable period of 1979, its output value for the January-October 1980 period showed an increase of 29.8 percent; its export, 40.3 percent, and its profit, 46.5 percent.

Source: Shanghai JIEFANG RIBAO in Chinese 22 Nov 80 p 1

Item: Niejiang Textile Mill  
[0355 3068 4701 4930 0617]

Location: Neijiang, Sichuan, PRC

Data: This mill overfulfilled its annual profit plan by 21 percent. The net profit realized by the plant was 1.12 million yuan higher than that of the previous year. Furthermore, the profit turned over to the state amounted to 6.1 million yuan, a 4.7-percent increase over the annual plan.

Source: Chengdu SICHUAN RIBAO in Chinese 29 Nov 80 p 2

Item: Zhiquing (Educated Youth) Carton Plant  
[4249 7230 4786 4630 0617]

Location: Changtai County, Fujian, PRC

Data: This plant was officially put into operation on 1 October 1980. It was established for the purpose of providing jobs for educated youth. The project was financed by the Changtai County's Educated Youth Job Placement Department and by the Fujian Education Youth Department, which allocated a total of 350,000 yuan. It has three plant buildings and two warehouses, covering 1,120 square meters of floor space. When fully in operation, the plant will have an annual carton output of 1,200 metric tons, an annual output value of 1 million yuan, and an annual profit of 36,000 yuan. It currently employs 63 persons and will eventually provide employment for 150 educated youths.

Source: Fuzhou FUJIAN RIBAO in Chinese 4 Oct 80 p 1

Item: Shanghai Sewing Machine Plant No 2  
[0006 3189 4911 4771 2623 0059 0617]

Location: Shanghai, PRC

Data: Shanghai produced more than 1 million sets of "Butterfly" brand sewing machines in 1980. This plant, which produces this brand of sewing machines, is now one of the largest sewing machine factories in the world. The U.S. Singer Sewing Machine Company has indicated willingness to cooperate with this plant.

Source: Beijing XINHUA Domestic Service in Chinese 0117 GMT 4 Jan 81 OW

Item: Shanghai General Foreign Trade Corporation  
[0006 3189 1120 6319 4920 0361 0674]

Location: Shanghai, PRC

Data: Loaded with refrigerated foodstuff for export, "Huleng No 4," the first transport ship for external trade owned by this corporation, left Shanghai Port on 11 November on its first voyage to Hong Kong. With a total loading capacity of more than 1,400 metric tons, "Huleng No 4" has four refrigerated compartments for pork, fish, chicken and other foodstuff for export. In the past 2 years, Shanghai Port has experienced the swift expansion of foreign trade, the rapid increase in export commodities and the inadequacy of transport facilities for handling these commodities. Therefore, the Shanghai Foreign Trade Department decided to operate foreign trade transport ships in accordance with the State Council's regulation. With further expansion of foreign trade, more locally owned ships will be commissioned, and more routes will be opened.

Source: Beijing XINHUA Domestic Service in Chinese 1526 GMT 11 Nov 80 OW

Item: Chengdu Instrument Institute  
(2052 6757 0308 0892 4282 4496 2076)

Location: Chengdu, Sichuan, PRC

Data: A new solder which can weld diamond is now available, thanks to efforts made by Chen Decai, engineer of this institute under the First Ministry of Machine-Building Industry.

Source: Beijing XINHUA Domestic Service in Chinese 0117 GMT 17 Dec 80 OW

## VIII. PHOTOGRAPHS OF INDUSTRIAL FACILITIES

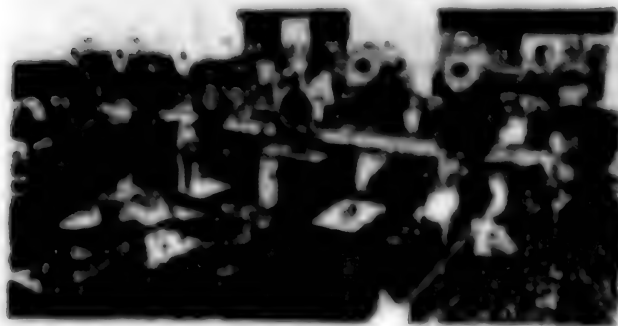


Fig. 1 Research personnel of the Shanghai Institute of Optics and Fine Mechanics under the Chinese Academy of Sciences have set up a laser 6-channel neodymium glass plasma physics testing facility. The project is an important achievement in China's laser nuclear fusion research.

[Source: Beijing GUANGMING RIBAO in Chinese 27 Dec 80 p 1]



Fig. 2 Construction of a power plant in the Huolinhe Coal Mining Zone, China's largest open-pit coal mine, is under way.

[Source: Beijing REDJIN RIBAO in Chinese 28 Oct 80 p 1]





Fig. 3 A section of the Dujiang Paper Mill in Qian County, Sichuan. This paper mill reported a profit of 800,000 yuan during the January-September 1980 period.

[Source: Chengdu SICHUAN RIBAO in Chinese 13 Nov 80 p 2]

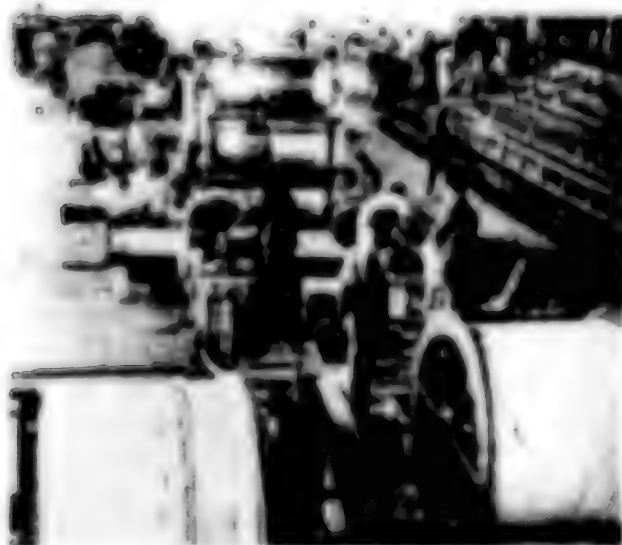


Fig. 4 A section of the rubber tube workshop of the Qingdao Rubber Plant No 6. The workshop produces cloth-impregnated rubber tubes for export.

[Source: Jinan DAZHONG RIBAO in Chinese 21 Oct 80 p 1]



Fig. 5 View of a workshop of the Shandong Chemicals Plant that produces FN-103 bonding agent for China's national defense, automotive and electronic industries.

[Source: Jinan DAZHONG RIBAO in Chinese 24 Oct 80 p 1]

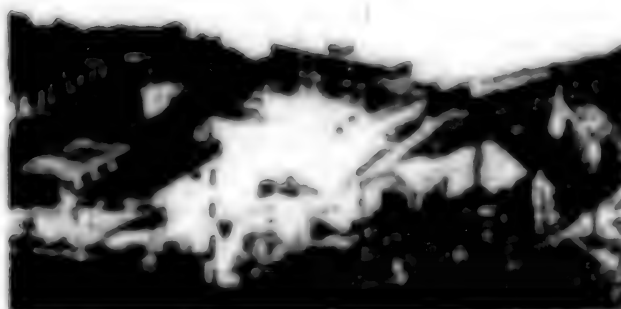


Fig. 6 View of the Daishan Lead-Zinc Mine which has been in operation for the past 2 years. It has so far provided the state with 1.58 million metric tons of powered ore.

[Source: Hangzhou ZHEJIANG RIBAO in Chinese 1 Dec 80 p 1]



Fig. 7 Another view of the Chiehui Natural Gas Chemicals Plant in Caidong. The plant is scheduled to go into regular production shortly.

[Source: Hong Kong TA KUNG PAO in Chinese 15 Dec 80 p 13]



Fig. 8 View of a section of the Hangzhou Power Generating Equipment Plant, which manufactures medium- and small-sized hydroelectric equipment.

[Source: Hangzhou ZHEJIANG RIBAO in Chinese 15 Nov 80 p 1]



Fig. 9 Photograph shows technicians of the Qushou Chemicals Plant in Zhejiang operating computers to control their operations.

[Source: Hangzhou ZHEJIANG RIBAO in Chinese 4 Nov 80 p 1]



Fig. 10 View of China's first large diameter project ocean drilling vessel re-built by a unit of the East China Fleet. The largest diameter of holes drilled by the vessel is 1.7 meters.

[Source: Hangzhou ZHEJIANG RIBAO in Chinese 27 Dec 80 p 1]



Fig. 11 Photograph of a 60-ton refrigeration ship successfully trial built by the Lusi Shipyard in Qidong County, Jiangsu.

[Source: Nanjing XINHUA RIBAO in Chinese 21 Oct 80 p 1]



Fig. 12 A batch of S195 diesel engines built by the Longxi Diesel Engine Plant in Fujian.

[Source: Fuzhou FUJIAN RIBAO in Chinese 17 Oct 80 p 1]



Fig. 13 Technicians of the Longxi Radio Plant in Fujian are inspecting a group of M55-2 electric pulse "fish herding" machines for fish breeding in reservoirs.

[Source: Fuzhou FUJIAN RIBAO in Chinese 17 Oct 80 p 1]



Fig. 16 View of the assembly shop of the Chongqing Radio Plant No. 1. In 1979 this plant turned out 30,000 television sets. It had planned for more than 100,000 sets in 1980. Its products also include 100,000 sets of color televisions, 100,000 sets of black and white televisions, 100,000 sets of color televisions, and 100,000 sets of black and white televisions.

Figure 16: Chongqing RADIO PLANT (CHONGQING RADIO FACTORY) in Chinese No. 1, 1980, p. 41

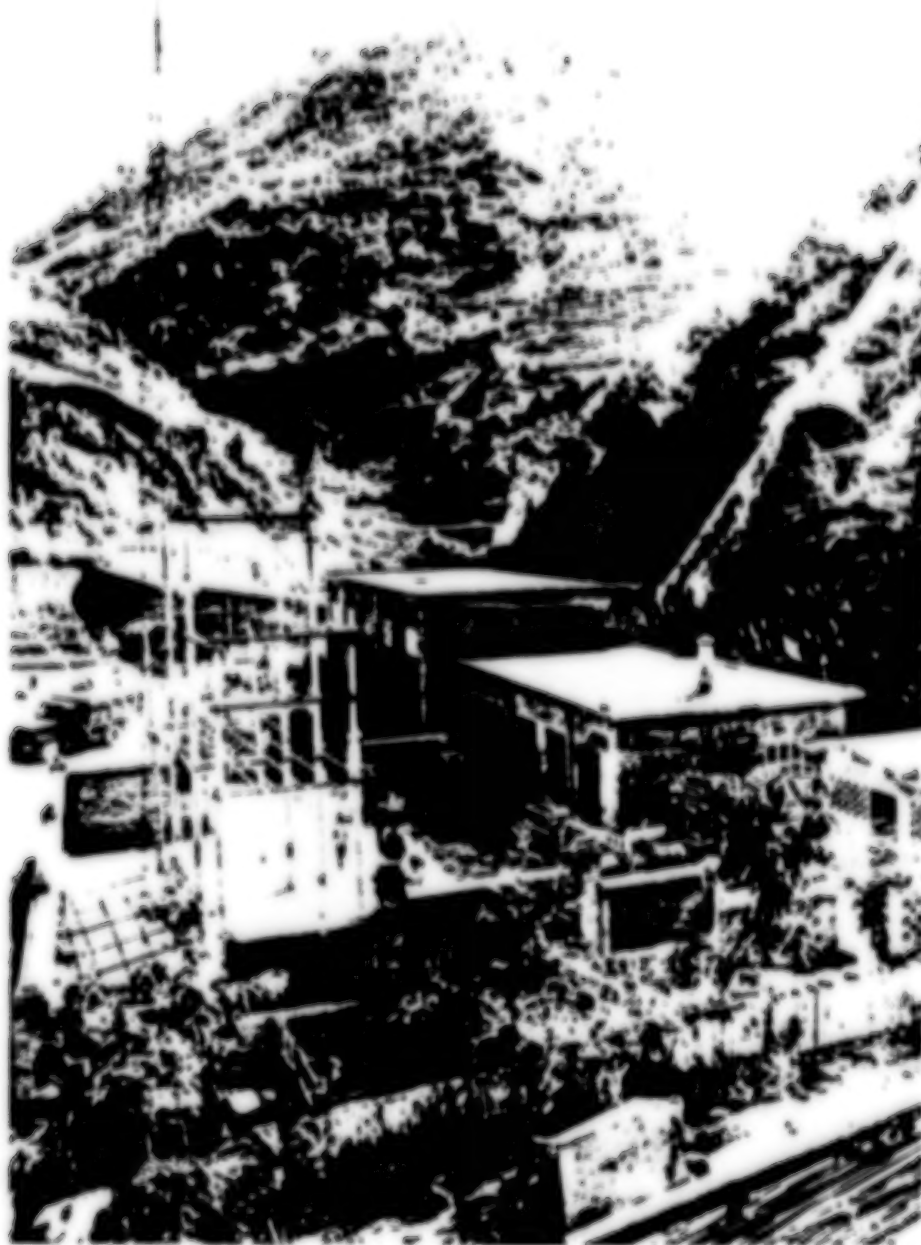


Fig. 15 This is the Huaqiaoba Power Plant with an installed capacity of 1,600 kilowatts in Nujiang Autonomous Zhou, Yunnan. Nujiang has built 36 medium- and small-scale hydroelectric power stations with a total installed capacity of 9,927 kilowatts.

[Source: Kunming YUNNAN HUABAO in Chinese No 6, 1980 p 2]





Fig. 16 View of the Liupanahui Coal Machinery Plant, a Daqing-type enterprise in Yunnan Province. CDXA 1-2.5 storage battery-type mining electric car is its principal product. The plant has also succeeded in building a CDXJ-5 ton, explosion-proof special electric car.

[Source: Gulyang GUIZHOU HUABAO in Chinese No 2, 1980 p 3]

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**DATE FILMED**

5 Feb. 1981

